(i)	Pri	ated Pages : 2 Roll No			
(ii)	Que	estions :9 Sub. Code: 2 5 9	3 7		
		Exam. Code: 0 4	3 5		
M.Sc. Bio-Technology 1st Semester (2124) BIOMOLECULES Paper: MBIO-102					
Time Allowed: Three Hours] [Maximum Marks: 80					
Note: — Attempt five questions in all. Q. No. 1 is compulsory. Select one question from each unit.					
1.	(a)	What is the role of Cori's cycle.	3		
	(b)	What is glycogenesis?	2		
	(c)	What are chaperonins?	2		
	(d)	What is the role of acyl carrier protein?	2		
	(e)	What are waxes made up of?	2		
	(f)	What is a nucleoside?	2		
	(g)	What is stereoisomerism in carbohydrates?	3		
UNIT—I					
2.	(a)	Discuss the structure of glycogen.	7		
	(b)	Discuss the experimental details in derivation of a pathway.	9		
3.	(a)	Discuss the reactions in glycolysis.	8		
	(b)	Describe the reversible regulation of glycogen	synthesis		
	(0)	and breakdown.	8		

UNIT-II

4.	(a)	Discuss how proteins are classified according to	to their
		biological function.	8
	(b)	Discuss the structural features of alpha keratin.	8
5.	(a)	Discuss the forces stabilizing quaternary p	orotein
		structure.	8
	(b)	Discuss the structure function relationship of hemog	globin.
			8
	- 11	UNIT—III	
6.	(a)	Discuss pathway for synthesis of saturated fatty	acids.
			10
	(b)	Discuss the structure and function of phophatidyl cl	holine.
			6
7.	(a)	Discuss the catabolism of ketone bodies.	7
	(b)	Discuss the biological functions of steroids.	9
		UNIT—IV	
8.	(a)	Discuss the Watson and Crick model of DNA structure	cture.
			9
	(b)	Discuss the Tm and its relation to GC content.	7
9.	(a)	Discuss experimental evidence for DNA as the go	
		material.	7
di C	(b)	Discuss de novo pathway for synthesis of GMP.	9